Rabbit RSK2 Polyclonal Antibody | anti-RPS6KA3 antibody

Anti-RSK2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254633	**Rabbit**	**HumanPredicted to React with: Mouse (Species predicted to react based on 100% sequence homology)**	**Immunofluorescence, Immunocytochemistry, Western Blot**

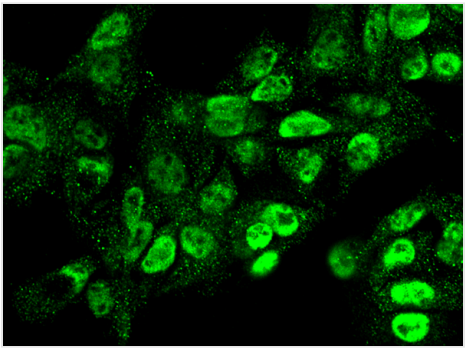
PRODUCT SYNONYMS

RSK2; Polyclonal Antibody; Anti-RSK2 Antibody; Rabbit Polyclonal; RSK2 Antibody; Rabbit PAb; Antigen Affinity Purified; ribosomal protein S6 kinase; 90kDa; polypeptide 3; Anti-CLS Antibody; Anti-HU-3 Antibody; Anti-ISPK-1 Antibody; Anti-MAPKAPK1B Antibody; Anti-MRX19 Antibody; Anti-p90-RSK2 Antibody; Anti-pp90RSK2 Antibody; Anti-RSK Antibody; Anti-S6K-alpha3 Antibody; anti-RPS6KA3 antibody

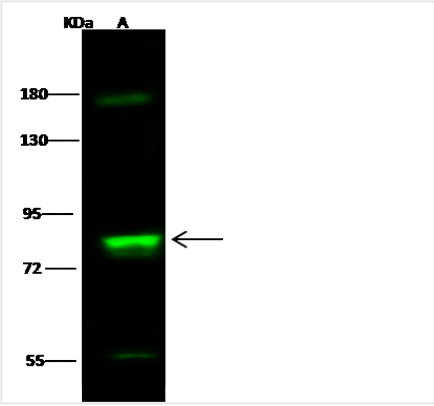
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RSK2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-RPS6KA3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human RSK2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human RSK2, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of RPS6KA3 in HepG2 cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human RPS6KA3 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green).Positive staining was localized to cytoplasm and nucleus.



WB (Western Blot)
Anti-RPS6KA3 rabbit polyclonal antibody at 1:500 dilutionLane A: HepG2 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti- Rabbit IgG H&L (Dylight 800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:84 kDaObserved band size:84 kDa(We are unsure as to the identity of these extra bands.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6KA3 antibody	Coffin-Lowry syndrome (CLS) is a rare X-linked dominant disorder characterized by intellectual disability, craniofacial abnormalities, short stature, tapering fingers, hypotonia, and skeletal malformations. CLS is caused by mutations in the Ribosomal Protein S6 Kinase, 90 kDa, Polypeptide 3 (RPS6KA3) gene located at Xp22.12, which encodes Ribosomal S6 Kinase 2 (RSK2). This gene encodes for a growth factor-regulated serine/threonine-protein kinase, RSK2 (ribosomal S6 kinase 2), acting in the Ras-mitogen-activated protein kinase signaling pathway. Mutations in the RPS6KA3 gene are extremely heterogeneous and lead to premature termination of translation and/or to loss of phosphotransferase activity of the RSK2 protein. Screening for RSK2 mutations is essential in most cases to confirm the identification as well as for genetic counseling. This gene also affects nonsyndromic X-linked ID and nonsyndromic X-linked ID without bony abnormalities.
References	Nishimoto HK, et al. (2014) The historical coffin-lowry syndrome family revisited: Identification of two novel mutations of rps6ka3 in three male patients. Am J Med Genet A 164a (9): 2172-2179.Matsumoto A, et al. (2013) An xp22.12 microduplication including rps6ka3 identified in a family with variably affected intellectual and behavioral disabilities. J Hum Genet 58 (11): 755-757.Delaunoy JP, et al. (2006) Identification of novel mutations in the rsk2 gene (rps6ka3) in patients with coffin-lowry syndrome. Clin Genet 70 (2): 161-166.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759050
NCBI GeneID	6197
NCBI Accession #	NP_004577.1
NCBI GenBank Nucleotide #	NM_004586.2
UniProt Accession #	P51812; Q4VAP3; Q59H26; Q5JPK8; Q7Z3Z7; B2R9V4
Molecular Weight	740
NCBI Official Full Name	ribosomal protein S6 kinase alpha-3
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 3
NCBI Official Symbol	RPS6KA3
NCBI Official Synonym Symbols	CLS; RSK; HU-3; RSK2; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3
NCBI Protein Information	ribosomal protein S6 kinase alpha-3; RSK-2; p90-RSK 3; MAPKAPK-1b; S6K-alpha-3; MAPKAP kinase 1b; ribosomal S6 kinase 2; MAPK-activated protein kinase 1b; insulin-stimulated protein kinase 1; MAP kinase-activated protein kinase 1b

UniProt Protein Name	Ribosomal protein S6 kinase alpha-3
UniProt Gene Name	**RPS6KA3**
UniProt Synonym Gene Names	ISPK1; MAPKAPK1B; RSK2; S6K-alpha-3; p90-RSK 3; p90RSK3; ISPK-1; MAPK-activated protein kinase 1b; MAPKAP kinase 1b; MAPKAPK-1b; RSK-2
UniProt Entry Name	KS6A3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/rsk2-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254633